



Industrial Data Systems Inc.

Weighing Technology Leaders

Axle Sys 1

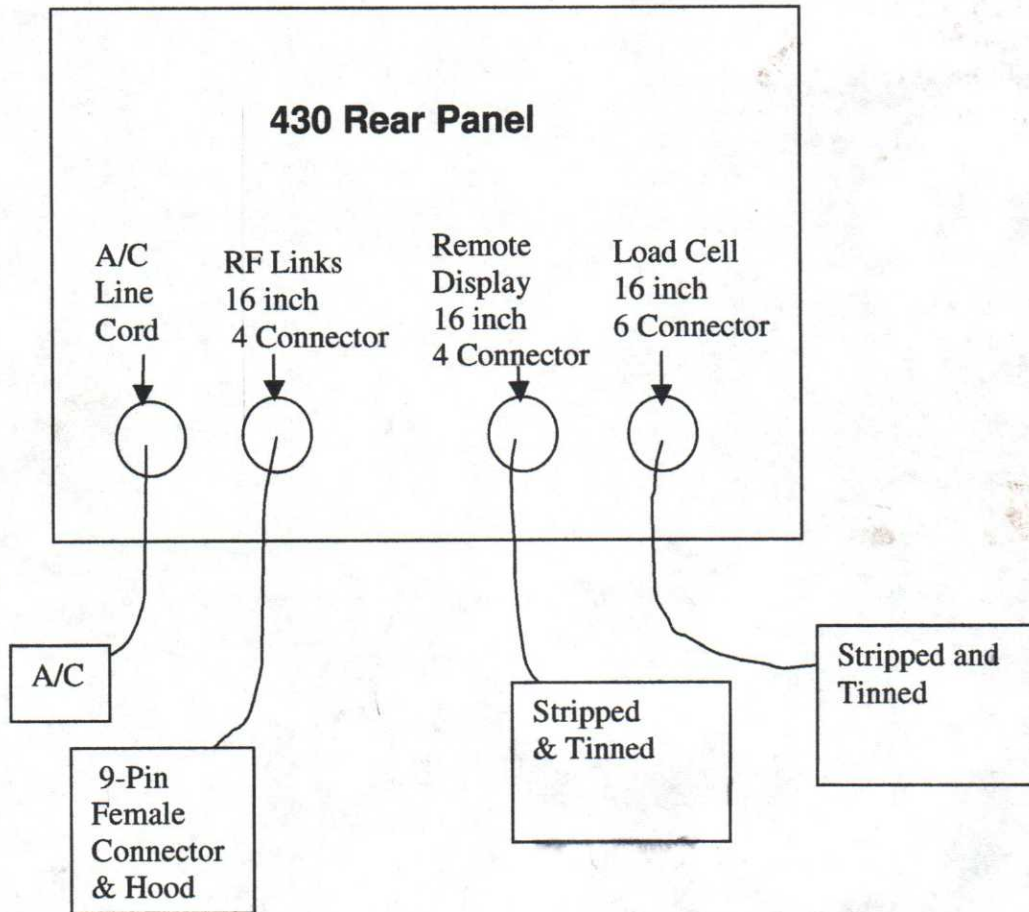
IDS 430 Series Digital Indicator Program C430006H.sf

Automatically weighs multiple axles, prints each axle weight and total via RF devices and displays each axle weight and total on a remote display.

Installation & Wiring Information (POWER OFF ALL DEVICES)

NOTE: If RF Transponder is housed in Scoreboard JUST CONNECT THE ANTENNA to the scoreboard and plug in RF data link module on the meter side

Connecting the to the weight meter



Connecting the weigh indicator to the scoreboard

The cables are pre-wired with 4-conductor terminal blocks match the colors from the indicator to the scoreboard wiring. See last page for detailed wiring connections.

Connecting the Weight Indicator serial communications to the RF Server transceiver

The cable is pre-wired with a DB9 female connector. Attach the 9-pin connector to the RF server module and tighten fasteners. Plug in the power transformer (provided) into the RF server module. The RED and Green LEDs should illuminate.

Connecting the serial communications between the RF Client transceiver and printer

Attach the provided DB25 pin (Male) to DB9 pin (female) serial cable to the printer and RF Client module. Plug in the power transformer (provided) into the RF Client module. Plug in the AC power cords on the printer and RF Client to an AC 120-115 volt outlet. On the RF Client module the RED and Green LEDs should illuminate (ready state). Turn on the printer switch located in the rear of the printer. The power and online green LEDs should be illuminated. If the online LED is not illuminated depress the online button on the front of the printer. Feed some paper by depressing the paper feed button located next to the online button and paper will feed, tare off the paper and the printer is now ready to receive data from the system.

Load cell wiring pre-wired on the weight indicator to the cable from the scale, NOTE: If not pre-soldered on the scale side use the diagram below for connections.

- 1 = Green = + signal**
- 2 = White = - signal**
- 3 = Red = + excitation**
- 4 = Black = - excitation**

Setup Parameters Trip weight & Timers

Configure the following parameters: CFG Parameters

Parameter 43 Trip level weight. Determines when an axle is on the scale
And starts the auto axle program (default 400).

**Timers are calculated in tenths of a second. 10 = 1 sec, 20 = 2 sec, etc;
Change the "L" value only the "FN" value must remain the same.**

Parameter 74, 1 Red light turn delay timer. This provides a delay time before
the Red light output is turned on. (default 40 four sec).

Parameter 74, 2 Green light turn delay timer. The amount of delay time
before the Green light is turned on. (default 40 four sec)

Parameter 74, 3 Finish timer. Amount of time to wait before automatically
activating the finish print function. (default 150 15 sec)

Operators Functions

The unit is capable of operating unattended, with no operator intervention. The indicator determines when an axle is on the scale by the increase (or decrease) of weight on the scale.

A finish timer (parameter 74-3) determines when to complete a weigh cycle (print total and wait for empty scale).

Press the F1 key to manually finish a weigh cycle before finish timer has timed out.

Press the F2 key to abort the weigh cycle.

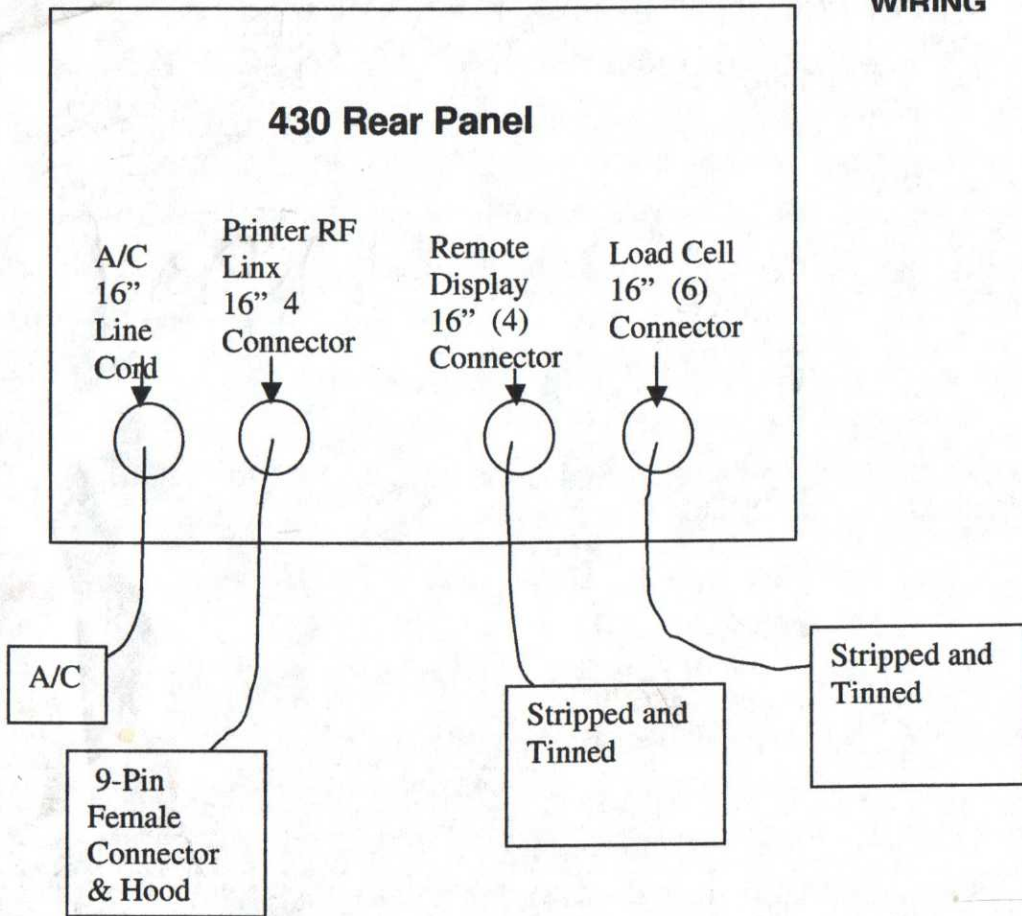
Configurable user print labels

Values are entered ASCII decimal values See 430 manual ASCII chart for conversion chart

CFG 85 = PRECISION WEIGHT MGNT

CFG 88 = 1-800-340-6246

AXLE SYS 1 WIRING



REMOTE DISPLAY CABLE (20 feet)

Terminal 14 (TTL 1) = green
 Terminal 3 RXD = white
 Terminal 13 (TTL2) = red
 Terminal 2 GND (ground) = black
 Located in the remote display

LOAD CELL CABLE (16")

1 = + Signal = green
 2 = - Signal = white
 3 = + Exe = red
 4 = + Sense = blue (Optional)
 5 = - Sense = brown (Optional)
 6 = - Exe = black
 Note: If the sense lines are to be used
 Remove the sense jumpers JP1 & JP2
 Located inside the weight indicator

REMOTE DISPLAY CABLE (16")

TB4 Terminal 1 (TTL 1) = green
 TB3 Terminal 11 (TXD 2) = white
 TB4 Terminal 2 (TTL2) = red
 TB3 Terminal 7 (GND) = black
 Located inside the weight indicator

RF Linx Cable (16") 9-Pin female with hood

DB-Pin Side	430 Side
Pin 3 = red	----- TB3 Terminal 2 (TXD 1)
Pin 5 = black	----- TB3 Terminal 5 (GND)